

Title (en)

Parallel semicontinuous or continuous reactors with two-piece feed lines

Title (de)

Semikontinuierliche oder kontinuierliche Parallelreaktoren mit zweiteligen Zuleitungen

Title (fr)

Réacteurs en parallèle semicontinus ou continus avec conduites d'alimentation en deux parties

Publication

**EP 1310297 A3 20051123 (EN)**

Application

**EP 03003215 A 20010601**

Priority

- EP 01939863 A 20010601
- US 20914200 P 20000603
- US 25571600 P 20001214

Abstract (en)

[origin: EP1310296A2] A parallel, semi-continuous or continuous, pressure reactor comprising four or more semi-continuous or continuous reaction vessels for containing a liquid reaction mixture, each of the four or more reaction vessels being pressurizable to a pressure of not less than about 50 psig, at least four liquid feed lines in selectable fluid communication with each of the four or more reaction vessels, each of the at least four liquid feed lines being in fluid communication with one or more liquid reagent source vessels, such that one or more liquid reagents can be selectively fed from the one or more source vessels to each of the four or more reaction vessels during a reaction under reaction conditions, and, at least one feed-pressurization station pressurizable to a pressure of not less than about 50 psig, at least a portion of each of the at least four liquid feed lines being in selectable fluid communication with the at least one feed-pressurization station, such that the one or more liquid reagents prefeed to the feed-pressurization station under pressure to prepressurize the portion of the at least four liquid feed lines prior to feeding the one or more liquid reagents to the four or more reaction vessels.

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**B01J 19/00**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] EP 0916397 A2 19990519 - ROHM & HAAS [US]
- [X] US 5503805 A 19960402 - SUGARMAN JEFFREY J [US], et al
- [X] EP 0635713 A1 19950125 - ZYMARK CORP [US]
- [A] WO 0009255 A2 20000224 - SYMYX TECHNOLOGIES INC [US], et al
- [X] WO 9320130 A1 19931014 - BARRSKOGEN INC [US], et al
- [A] RANDHAVA R: "ADVANCED CONFIGURATIONS FOR CATALYST RESEARCH", CHEMICAL ENGINEERING PROGRESS, AMERICAN INSTITUTE OF CHEMICAL ENGINEERS. NEW YORK, US, vol. 70, no. 11, November 1983 (1983-11-01), pages 52 - 58, XP000929492, ISSN: 0360-7275

Cited by

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